

**SECTION 13 34 16.04  
PORTABLE EXTERIOR BLEACHERS  
(FIVE SEATING ROWS)**

**PART 1 GENERAL**

1.1 SECTION INCLUDES:

- A. Design, fabrication, and installation of portable aluminum bleachers

1.2 REFERENCES

- A. AISC – Manual of Steel Construction
- B. AISI – Specification for Design of Code Rolled Steel Structural Members
- C. AA – Specifications for Aluminum Structures
- D. FFPC – Florida Fire Prevention Code NFPA 101 and 102
- E. FBC - Florida Building Code

1.3 SUBMITTALS

- A. Provide copy of manufacturer's descriptive product data.
- B. Shop drawings signed and sealed by a Florida registered professional engineer with details of components.
- C. Submit one 12" seat sample.

1.4 WARRANTY

- A. Provide manufacturer's warranty from defects in materials and workmanship for 1-year from the date of Substantial Completion.

**PART 2 PRODUCTS**

2.1 DESCRIPTION

- A. Rise and Depth Dimensions: Provide vertical rise and horizontal depth each row shall be 8" x 24" with the seat 17" above the tread.
- B. Framework: Prefabricated angle or aluminum tube frames joined and cross-braced.
- C. Seats: Nominal 2" x 10" anodized aluminum plank with protective end caps.
- D. Treads: Nominal 2" x 12" milled aluminum plank with protective end caps.
- E. Bleacher section, 15' long, normally 5-rows and have a seating capacity of 50 students.
- F. Aisle handrails maybe required when slope is greater than 1:8, handrails shall have 1½" diameter.
- G. Provide a chain link-fencing guardrail and riser system above row 4 to meet the requirements of FFPC - NFPA 101 and 102 and the Consumer Product Safety Commission.
- H. Provide temporary anchorage for the bleacher system to meet current wind loading requirements, signed and sealed by an Engineer registered in the State of Florida.
- I. Size the concrete slab for the bleacher support to accommodate wheelchair spaces.
  - 1. <50 people = 2 spaces, >50 people = 4 spaces.

2.2 MATERIALS AND FINISHES

- A. Aluminum: Fabricated with aluminum alloy 6061-T6 mill finish.
- B. Extruded Aluminum:
  - 1. Seat planks of aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class 11.
  - 2. Tread planks of alloy 6063-T6, mill finish.
- C. Accessories: End caps of alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class 11.

2.3 DESIGN LOADS

- A. Live Load: 100 psf gross horizontal projection.

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- B. Lateral Sway Load: 24-plf seat plank.
- C. Perpendicular Sway Load: 10-plf seat plank.
- D. Wind Load: ASCE 7, Risk Category I, Exposure C
- E. Live Load of Seat and Tread Plank: 120-plf.

**PART 3 EXECUTION**

**3.1 INSTALLATION**

- A. In accordance with manufacturer's installation procedures and design criteria.
- B. On a smooth, hard, level surface.
- C. Anchored to resist wind loads at noted in Part 2-2.3-D., above.

END OF SECTION